SMC7901BRA5
1-Port Annex A ADSL2/ADSL2+ Modem Router

Product Overview

SMC7901BRA5 is a high integrated residential broadband access device, which provides one ADSL2+ RJ11 port and one built-in Ethernet port. The SMC7901BRA5 is fully compliant with ADSL2/2+ and Ethernet standards like IEEE802.3/802.3u. It provides high performance access to the Internet, downstream up to 24Mbps and upstream up to 2Mbps. With SMC7901BRA5, computer on the LAN side can communicate and share files with each other. This router can provide high access performance applications for individual users, SOHOs, and small enterprises.

Key Features and Benefits

Enhanced ADSL2+ Technology
Instant always on internet connectivity for wired computers. The built-in ADSL2/2+ modem gives unrivaled asymmetric high-speed data transport at up to 24Mbps downstream.

SPI Firewall Protection from Hackers
The NAT firewall with Stateful Packet Inspection (SPI), Intrusion Detection System & Denial-of-Service provides robust security from hackers while VPN pass-through allows secure connectivity to your office or corporate network. Access Control Lists with URL blocking allows you to control access to internet services & filter inappropriate web sites.

QoS
The SMC7901BRA5 includes a build in QoS engine, which allow network administrators to allocate network resource and to prioritize real-time applications like voice & video, to enable smooth Internet phone (VoIP) and lag-free online gaming.

Application Diagram

![Application Diagram](image)
Features

Hardware

Physical Interface
• 1 RJ-11 Jack for ADSL Interface
• 1 RJ-45 Jack for 10 / 100 Base-Tx Ethernet Port
• 1 Reset Button
• 1 Power DC jack
• 1 Power On / Off Switch
• 1 USB Port (Device Mode)

LED Indicators
• Power/ Link/Data/ Ethernet/USB

SOFTWARE

ADSL Compliance
• ANSI T1.413 Issue 2
• G.992.1 (G.dmt) Annex A
• G.992.2 (G.else) Annex A
• G.992.3 ADSL2 (G.dmt.bis) Annex A/J/K/L/M
• G.992.4 ADSL2 (G.else.bis)
• G.992.5 ADSL2+

ATM Features
• Support up to 8 ATM PVCs
• Support ATM Forum UNI 3.1/4.0 PVC
• Support UBR, CBR, and rt-VBR and nrt-VBR service classes
• Provide ATM layer functionality
• Support up to 8 PVCs – traffic shaping (CBR, UBR, rt/nrt-VBR)
• Support PPPoA (RFC2364)
• Support MAPoA functionality (RFC2684)
• Support IP over ATM (IPoA)
• Support ATM cell format ITU-T I.361
• Support OAM F4/F5 loopback

PPP Functions
• Point-to-Point Protocol (RFC1661)
• PPP over ATM (RFC2364)
• PPP over Ethernet (RFC2516)
• User Authentication
  - CHAP (RFC1994)
  - PAP (RFC1334)

Bridge Features
• Ethernet bridging
• Support Transparent Bridging
  - MAC address learning
  - MAC address filtering and protocol filtering for up-link

Routing Features
• RIP v1 / v2
• Static routing
• PPP / PPPoE (RFC 2516)
• NAT with ALGs
• NAPT
• IGMP v1 / v2
• IGMP Proxy / snooping
• IPv4
• IP pass through
• ARP Binding
• Port Mapping

Security
• Stateful Packet Inspection (SPI)
• Management Access Control for WAN
• User authentication for PPP (PAP / CHAP)
• DDoS (Dynamic DoS) Protection

Firewall
• NAT
• DMZ
• Filtering – IP Filtering, MAC Filtering, URL Filtering
• ACL (Access Control List)
• VPN (IPSec, PPTP, L2TP) pass-through
• Software Forbidden

Management
• Access Administration
• Web based Configuration - HTTP server
• System configuration backup and restore
• SNMP Support (V 1 and V 2C)
• Firmware Upgrade Available by Web / TFTP
• Remote Firmware Upgradeable
• UPnP
• Easy Setup Wizard
• TR069 Remote Management Diagnostic
• TR067 Ensures product meets all ADSL IOT test

QoS
• IP ToS function (RFC 1349)
• 802.1p bit remarking
• Traffic classification by port, 802.1p, ToS and DSCP

Dimension
• (L)140*(W)104*(H)28.5mm

Operating Environment
• 0° C ~ 40° C / 32° F ~ 104° F
• 10% ~ 80% Non-condensing
• Operating humidity: 10%~85%, non-condensing
• Storage humidity: 5%~95%, non-condensing

Weight
Device : 177g

Certifications
• FCC Class B
• CE Mark

Warranty
• Please check www.smc.com for the warranty terms in your country/region.

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